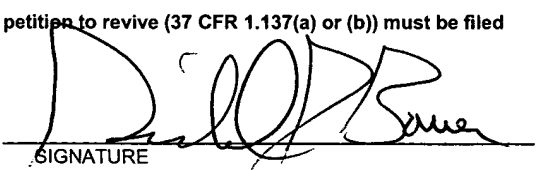


TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 213222.00098 10/521582 U.S. APPLICATION NO. (Unknown, see 37 CFR 1.5) Not Yet Assigned
INTERNATIONAL APPLICATION NO. PCT/CA2003/001018	INTERNATIONAL FILING DATE July 16, 2003	PRIORITY DATE CLAIMED July 17, 2002
TITLE OF INVENTION FREQUENCY DOMAIN EQUALIZATION IN COMMUNICATIONS SYSTEMS WITH SCRAMBLING		
APPLICANT(S) FOR DO/EO/US Shiquan WU; Jean-Philippe LAROCHE; Rene J.C. LAMONTAGNE; Frank R. KSCHISCHANG; and Jeffrey T. DAINES		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11 to 20 below concern document(s) or information included:		
11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Return Receipt Postcard		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.51) 10/321582		INTERNATIONAL APPLICATION NO. PCT/CA2003/001018		ATTORNEY'S DOCKET NUMBER 213222.00098											
Not Yet Assigned															
21. The following fees are submitted:				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Applicant use</th> <th style="width: 50%;">Office use only</th> </tr> <tr> <td><input checked="" type="checkbox"/> a) Basic national fee..... \$300.00</td> <td>\$ 300.00</td> </tr> <tr> <td><input checked="" type="checkbox"/> b) Examination fee..... \$200.00</td> <td>\$ 200.00</td> </tr> <tr> <td><input checked="" type="checkbox"/> c) Search fee..... \$500.00</td> <td>\$ 500.00</td> </tr> <tr> <td>TOTAL OF ABOVE CALCULATIONS = \$1000.00</td> <td>\$ 1000.00</td> </tr> </table>		Applicant use	Office use only	<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00	\$ 300.00	<input checked="" type="checkbox"/> b) Examination fee..... \$200.00	\$ 200.00	<input checked="" type="checkbox"/> c) Search fee..... \$500.00	\$ 500.00	TOTAL OF ABOVE CALCULATIONS = \$1000.00	\$ 1000.00
Applicant use	Office use only														
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00	\$ 300.00														
<input checked="" type="checkbox"/> b) Examination fee..... \$200.00	\$ 200.00														
<input checked="" type="checkbox"/> c) Search fee..... \$500.00	\$ 500.00														
TOTAL OF ABOVE CALCULATIONS = \$1000.00	\$ 1000.00														
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.															
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE												
- 100 =	/50 =		x \$250.00	\$ 0.00											
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 0.00											
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$											
Total claims	38 - 20 =	18	x \$50.00	\$ 900.00											
Independent claims	8 - 3 =	5	x \$200.00	\$ 1000.00											
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$ 0.00											
TOTAL OF ABOVE CALCULATIONS =				\$											
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$											
SUBTOTAL =				\$ 0.00											
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ 0.00											
TOTAL NATIONAL FEE =				\$ 2900.00											
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00											
TOTAL FEES ENCLOSED =				\$ 2940.00											
Amount to be refunded:					\$										
Amount to be charged					\$										
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>50-1710</u> in the amount of \$ <u>2940.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-1710</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>															
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p>															
SEND ALL CORRESPONDENCE TO:															
Patent Administrator KATTEN MUCHIN ZAVIS ROSENMAN 525 West Monroe Street Chicago, Illinois 60661-3963 (202) 625-3500															
				 SIGNATURE Richard P. Bauer											
				NAME											
				31,588											
				REGISTRATION NUMBER											